

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 – (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND HYDRATATION HYDRATION) PROCESS, characterized by the reduction of volumetric expansion in steel slag, verified ~~on~~ in a laboratory by specific tests, seeking ~~it's~~ the slag's economical reuse in pavement base and sub-base, and asphaltic covering in road works[[;]]--.--

2 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND HYDRATATION HYDRATION) PROCESS, according to claim 1, characterized by an inertization yard, over which the steel slag will be laid and processed[[;]]--.--

3 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND HYDRATATION HYDRATION) PROCESS, according to claim 1, characterized by distribution of the steel slag over ~~the~~ an inertization yard in a homogenous way[[;]]--.--

4 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND HYDRATATION HYDRATION) PROCESS, according to claim 1, characterized by movement of the slag on ~~the~~ an inertization yard using a leveling machine, a plough, a bulldozer or any other equipment

Applicant: Pimentel et al.  
Application No.: Not Yet Known

capable of promoting the aeration of ~~this material~~ the slag through its mixture, which accelerates accelerating of the ~~carbonatation~~ carbonation of the free magnesium and calcium oxides existing in the slag[[;]]--.--

5 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND ~~HYDRATATION~~ HYDRATION) PROCESS, according to claim 1, characterized by initial representative sample analysis of ~~the a~~ steel slag lot for verification of the volumetric expansion level of the steel slag (initial volumetric expansion) [[;]]--.--

6 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND ~~HYDRATATION~~ HYDRATION) PROCESS, according to claim 1, characterized by ~~hydratation~~ hydration, through water aspersion over the slag with a water truck, or aspersors installed on the inertization yard, arranged in a way so that all the slag is reached, accelerating the hydration reactions of the oxides contained the slag, especially the free magnesium and calcium oxides, which are the main responsible for the volumetric expansion of the steel slag.

7 - (Currently amended) ECONOMIC REUSE OF THE STEEL SLAG THROUGH INERTIZATION (AERATION AND ~~HYDRATATION~~ HYDRATION) PROCESS, according to claim 1, characterized by leaching and solubilisation of the steel slag, generating residues that will have other treatment.

8 – (New) A process for using steel slag for use in road paving, the process comprising:

defining an inertization yard for preparation of the slag;

Applicant: Pimentel et al.  
Application No.: Not Yet Known

placing slag within the inertization yard;  
aerating the slag to accelerate carbonation of free magnesium and calcium  
oxides within the slag; and  
hydrating the slag.